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L2: Entry 1 of 14

File: PGPB

Nov 15, 2001

PGPUB-DOCUMENT-NUMBER: 20010041352

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010041352 A1

TITLE: Method and kit for detecting microorganisms

PUBLICATION-DATE: November 15, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reilly, Sean M.	East Stroudsburg	PA	US	
LaRocca, Paul T.	Sparta	NJ	US	
LaRocca, Mary Anne Kunz	Sparta	NJ	US	

US-CL-CURRENT: 435/34; 435/30

ABSTRACT:

The specification relates to a method for the detection and collection of samples of microorganisms, such as mold spores, from the air and from surfaces utilizing a collection device that employs a substantially dry growth medium which is hydrated by a premeasured volume of liquid after microorganism collection on the dry growth medium has occurred. The specification also relates to a microorganism collection and detection kit comprising a microorganism collection device having a substrate and a layer of dry growth medium applied thereon, and a container of a premeasured volume of hydrating liquid.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIND
Draw Desc		Image									

2. Document ID: US 6517593 B1

L2: Entry 2 of 14

File: USPT

Feb 11, 2003

US-PAT-NO: 6517593

DOCUMENT-IDENTIFIER: US 6517593 B1

TITLE: MBI vortex bioaerosol cassette insert

DATE-ISSUED: February 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Robertson; Larry Don	Jewett	TX	75846	
Garrison; Robert Allen	Southlake	TX	76092	

US-CL-CURRENT: 55/385.1; 435/30, 435/34, 435/39, 435/5, 96/286, 96/316, 96/327

ABSTRACT:

A cassette suitable for the sampling of ambient air to determine if it contains particulate matter made up of an in-port cap that has a detachable tubing extending therefore; an intake cap longitudinally attached to the in-port cap; a cassette insert longitudinally attached to the intake cap on a side thereof opposite to the side of the intake cap attached to the in-port cap; a filter assembly longitudinally proximate to an end of the cassette passageway opposite to the end attached to the intake cap, and in operative relationship with the cassette passageway such that air passing through the cassette passageway must pass through said filter; and air exit means longitudinally attached to the cassette insert and housing the filter assembly, wherein said cassette passageway comprises a substantially circular entry end proximate to said intake cap and an elongated end proximate to said filter assembly; wherein the intake cap has at least one internal passageway communicating with the detachable tubing and communicating with the passageway through the cassette insert, and wherein the exit means has at least one internal passageway that communicates, through the filter assembly, between the insert passageway and the ambient environment.

31 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full	Title	Citation	Front	Reexam	Classification	Date	Reference	Sequences	Attachments	Claims	Full
Draw Desc	Image										

└ 3. Document ID: US 6514721 B2

L2: Entry 3 of 14

File: USPT

Feb 4, 2003

US-PAT-NO: 6514721

DOCUMENT-IDENTIFIER: US 6514721 B2

TITLE: Air sampler for pathogens and psychrometrics

DATE-ISSUED: February 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Spurrell; Leon Bryan	Etobicoke			CA

US-CL-CURRENT: 435/30; 435/287.5, 435/288.3, 435/307.1, 435/31, 73/29.02, 73/335.06

ABSTRACT:

An air sampler device and method for collecting airborne pathogens and psychrometric data for room or remote air samples wherein the sample volume is electronically controlled. Particulates in the air are caused to impact the surface of the growth/inhibitor media contained in the pathogen dish thereby depositing pathogenic microorganisms in the media. The growth/inhibitor media may be a solid, liquid, gel, or mixture thereof. After the pathogen dish is incubated, colony forming units are counted for determination of air quality parameters. A chip-based sensor measures

psychrometric properties of the air sample.

16 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Print
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4. Document ID: US 6329208 B1

L2: Entry 4 of 14

File: USPT

Dec 11, 2001

US-PAT-NO: 6329208
DOCUMENT-IDENTIFIER: US 6329208 B1

TITLE: Methods for determining gluconeogenesis, anapleurosis and pyruvate recycling
DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jones; John G.	Dallas	TX		
Sherry; A. Dean	Dallas	TX		
Jeffrey; F. M. H.	Dallas	TX		
Cottam; G. Larry	Richardson	TX		
Malloy; Craig. R.	Dallas	TX		

US-CL-CURRENT: 436/173; 424/9.3, 424/9.35, 435/29, 435/30, 435/35, 435/4, 436/127,
436/128, 436/129, 436/56, 436/63, 436/94, 436/95

ABSTRACT:

Simple equations that relate glucose, glutamate, glucuronate, and phenylacetylglutamine .sup.13 C NMR multiplet areas to gluconeogenesis and pyruvate recycling during metabolism of [1,2,3-.sup.13 C.sub.3]propionate are presented. This indicates that a direct measure of gluconeogenesis, pyruvate recycling, and anaplerosis may be obtained from a single .sup.13 C NMR spectrum of suitably prepared blood or urine samples collected after oral administration of enriched propionate, acetaminophen, and phenylacetate.

31 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Print
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5. Document ID: US 6244117 B1

L2: Entry 5 of 14

File: USPT

Jun 12, 2001

US-PAT-NO: 6244117
DOCUMENT-IDENTIFIER: US 6244117 B1

TITLE: Means for trapping contaminants contained in a gas

DATE-ISSUED: June 12, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mengel; R. William	Great Falls	VA		
Albro; Thomas G.	Bel Air	MD		
Berends, Jr.; John C.	Bel Air	MD		
Marshall; Robert S.	New Market	MD		
Sloop; Christopher D.	Mt. Airy	MD		

US-CL-CURRENT: 73/863.21; 435/30, 73/863.23

ABSTRACT:

A gas sampling system includes a sample trapping module having a gas pump and a power supply, and a removable magazine that fits within a port of the trapping module. The magazine contains a non-volatile electronic memory, which controls operation of the trapping module, and has a rotating carousel for holding sample tubes. Individual sample tubes are sealed at each end by a cap that has a needle-pierceable septum, and contain a solid collector material to trap chemical and biological contaminants in a gas sample drawn through the sample tube. Individual sample tubes are moved into and out of a sampling location by incremental rotation of the carousel and, while at the sampling location, a pair of hollow bore needles are inserted through the sample tube end caps to allow the drawing of a gas sample through the tube.

8 Claims, 14 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Full

6. Document ID: US 6054324 A

L2: Entry 6 of 14

File: USPT

Apr 25, 2000

US-PAT-NO: 6054324

DOCUMENT-IDENTIFIER: US 6054324 A

TITLE: Method for detecting the presence of killing and collecting infectious airborne microorganisms

DATE-ISSUED: April 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sullivan; George D.	Evanston	IL	60201	
Sullivan; Daniel J.	Evanston	IL	60201	
Sullivan; William J.	Chicago	IL	60631	

US-CL-CURRENT: 436/174; 422/101, 422/28, 422/32, 435/30, 435/308.1, 435/309.1, 435/31, 436/176, 436/177, 95/189, 95/202

ABSTRACT:

A method and device for detecting airborne, infectious microorganisms in indoor air and collecting them for rapid identification. Diseased air is drawn into an enclosed chamber where it is percolated through a liquid such that many of the microorganisms become encapsulated in the liquid. The liquid is then atomized to ensure encapsulation of microorganisms which may have escaped encapsulation in the percolation step, and then separated from the air. The relatively slow drawing rate and delicate percolation through the liquid preserves the integrity of the microorganisms. The air is released into the room, while the microorganism-containing liquid is directed to a reservoir. A magnetic substance is added to the reservoir. The microorganism-containing liquid is passed through an electromagnetic field whereupon the microorganisms are attracted to the magnetic surface. These microorganisms are thereafter removed for analysis. The remaining liquid is recycled.

2 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Referred	Classification	Date	Reference	Sequences	Attachments	Index
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7. Document ID: US 5874046 A

L2: Entry 7 of 14

File: USPT

Feb 23, 1999

US-PAT-NO: 5874046

DOCUMENT-IDENTIFIER: US 5874046 A

TITLE: Biological warfare agent sensor system employing ruthenium-terminated oligonucleotides complementary to target live agent DNA sequences

DATE-ISSUED: February 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Megerle; Clifford A.	Thousand Oaks	CA		

US-CL-CURRENT: 422/68.1; 422/50, 422/62, 422/63, 422/67, 422/69, 422/82.01, 422/82.02, 435/283.1, 435/285.1, 435/285.2, 435/287.1, 435/287.2, 435/287.3, 435/289.1, 435/29, 435/30, 435/40.5, 435/6, 436/501

ABSTRACT:

A sensor system and method are provided that are capable of the real-time detection of target live microorganisms, such as biological warfare agents. The sensor system includes a highly-sensitive, highly-selective sensor cell that comprises a single-stranded oligonucleic acid sequence that is complementary to a portion of the DNA of a target live microorganism, the oligonucleic acid having been modified with the covalent attachment of electron donor and acceptor moieties. In the presence of the targeted microorganism, hybridization occurs between the modified oligonucleic acid and the microorganism's DNA, such that the electron conductance between the electron transfer moieties greatly increases, thereby providing a means of detecting the presence of the target live microorganism. Aside from the sensor cell, the sensor system also includes an inlet port in the sensor cell wall by which to introduce a sample from the fluid environment into the sensor cell; a cell wall disrupter to release the nucleic acid of the fluid sample into the sensor cell; an electron transfer rate measuring system to gauge the electron transfer rate between the electron transfer moieties of the modified oligonucleic acid; a power source; a microcontroller to analyze the measured electron transfer rate for evidence of hybridization; and a communication system for relaying information regarding the

presence or absence of the target live microorganism to the user of the sensor system. It is contemplated that the sensor system, exclusive of a battery and pump pack, will be only slightly larger than a pack of cigarettes and light enough to be comfortably worn and carried by personnel.

13 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Print
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8. Document ID: US 5766958 A

L2: Entry 8 of 14

File: USPT

Jun 16, 1998

US-PAT-NO: 5766958
DOCUMENT-IDENTIFIER: US 5766958 A

TITLE: Method for detecting and collecting infectious airborne microorganisms for rapid identification

DATE-ISSUED: June 16, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sullivan; George D.	Evanston	IL	60201	
Sullivan; Daniel J.	Evanston	IL	60201	
Sullivan; William J.	Chicago	IL	60631	

US-CL-CURRENT: 436/174; 422/101, 422/28, 422/32, 435/30, 435/308.1, 435/309.1, 435/31, 436/176, 436/177, 95/189, 95/202

ABSTRACT:

A method and device for detecting airborne, infectious microorganisms in indoor air and collecting them for rapid identification. Diseased air is drawn into an enclosed chamber where it is percolated through a liquid such that many of the microorganisms become encapsulated in the liquid. The liquid is then atomized to ensure encapsulation of microorganisms which may have escaped encapsulation in the percolation step, and then separated from the air. The relatively slow drawing rate and delicate percolation through the liquid preserves the integrity of the microorganisms. The air is released into the room, while the microorganism-containing liquid is directed to a reservoir from which samples may be extracted for analysis. The liquid is recycled.

19 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Print
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9. Document ID: US 5063026 A

L2: Entry 9 of 14

File: USPT

Nov 5, 1991

US-PAT-NO: 5063026

DOCUMENT-IDENTIFIER: US 5063026 A

TITLE: Egg collecting apparatus

DATE-ISSUED: November 5, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wong; Johnson N. S.	Rolling Hills	CA		

US-CL-CURRENT: 422/102; 422/99, 435/30, 435/307.1, 435/309.4, 600/562, 600/572

ABSTRACT:

A collecting apparatus for the collection of pinworm eggs incorporates a shaft surrounded by an adhesive strip. A tab is disposed at the free end of the adhesive strip. The shaft is attached to a gripping member by a connecting member.

The gripping member is preferably a threaded screw cap suitable for use with a storage tube. The shaft and connecting member are placed within the tube and the tube is sealed with the gripping member for transportation and storage of collected eggs. Once a specimen is collected, the tab of the adhesive strip is used as an anchor. Using the gripping member as a tool in a rotating fashion, the entire adhesive strip is rolled onto a microscope slide without disturbing any specimens on the strip.

8 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Creation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Name
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10. Document ID: US H000110 H

L2: Entry 10 of 14

File: USPT

Aug 5, 1986

US-PAT-NO: H000110

DOCUMENT-IDENTIFIER: US H000110 H

TITLE: Tracking of air mass movement

DATE-ISSUED: August 5, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barditch; Irving F.	Baltimore	MD		
Bowersox; Orville C.	Frederick	MD		

US-CL-CURRENT: 435/29; 435/30, 435/34, 435/832

ABSTRACT:

The movement of an air mass is monitored by releasing a tracer entity at a given location, collecting a sample of air at a different location and analyzing the

collected sample of air for the presence of the tracer entity by using *Bacillus thurengiensis* as the tracer entity and by analyzing for the presence of the bacterium by effecting a culture in a medium capable of supporting bacterial growth and preferably containing citrate as the sole source of assimilable carbon.

5 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Print
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11. Document ID: US 4233404 A

L2: Entry 11 of 14

File: USPT

Nov 11, 1980

US-PAT-NO: 4233404

DOCUMENT-IDENTIFIER: US 4233404 A

TITLE: Method for testing for the presence of pathogens

DATE-ISSUED: November 11, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baier; Robert E.	Buffalo	NY		

US-CL-CURRENT: 435/30; 435/261, 435/803, 436/63

ABSTRACT:

Water and air are tested for biological agents by concentrating the biological substances at an air/water interface which permits natural cell multiplication during the concentrating process.

3 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Print
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12. Document ID: US 4121525 A

L2: Entry 12 of 14

File: USPT

Oct 24, 1978

US-PAT-NO: 4121525

DOCUMENT-IDENTIFIER: US 4121525 A

TITLE: Method and apparatus for aseptically sowing small seed or spores

DATE-ISSUED: October 24, 1978

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Courtis; William S.	Indianapolis	IN	46208	

US-CL-CURRENT: 111/200; 215/248, 215/261, 435/30, 47/1.1, 47/59R

ABSTRACT:

A method for aseptically sowing small seeds or spores of green plants includes preparation of a sterile closed flask (one-half pint jar) containing a growth medium and having both a contamination-resistant vent and a puncturable, resealing membrane in its closure. The seeds or spores are placed in a hypodermic syringe and a sterilizing solution is drawn into the syringe and held in contact with the seeds long enough to sterilize their surfaces. If desired, the sterilizing solution is ejected from the syringe through a filter or otherwise so as to retain the seeds or spores, and replaced by a wash liquid. The syringe is fitted with a sterile hypodermic needle of sufficient bore size to pass the seeds or spores. The needle is inserted through the membrane, after sterilizing the outside surface of the membrane, and the sterilized seeds or spores are discharged directly from the syringe onto the growth medium in the flask.

13 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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└ 13. Document ID: US 3915806 A

L2: Entry 13 of 14

File: USPT

Oct 28, 1975

US-PAT-NO: 3915806

DOCUMENT-IDENTIFIER: US 3915806 A

TITLE: Specimen holding kit

DATE-ISSUED: October 28, 1975

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Horlach; Heinz Eric	Los Angeles	CA		

US-CL-CURRENT: 435/307.1; 435/30, 435/810

ABSTRACT:

A disposable kit for collecting, holding and transporting biological specimens in a saturated medium environment.

A flat elongated resilient pouch of inert material is formed with two sterile hermetically sealed compartments. A rupturable transverse closure across one of the compartments defines a sealed chamber containing a transport medium. The second compartment contains a specimen collecting swab having an elongated stem. The pouch is adapted to be opened at one end to permit the swab to be removed and, after the specimen has been collected, reinserted, thrust through the rupturable closure, and immersed in the transport medium. The pouch is resealable to secure the swab in the medium containing chamber and to prevent exposure to the atmosphere during transport and storage.

10 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Revised	Classification	Date	Reference	Sequences	Attachments
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☐ 14. Document ID: US 3661718 A

L2: Entry 14 of 14

File: USPT

May 9, 1972

US-PAT-NO: 3661718

DOCUMENT-IDENTIFIER: US 3661718 A

**** Se image for Certificate of Correction ****

TITLE: METHOD FOR TAKING AND TRANSFERRING BACTERIA SAMPLES

DATE-ISSUED: May 9, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sterling; Rose J.	Denver	CO		

US-CL-CURRENT: 435/243; 435/30, 435/307.1, 435/309.1, 435/39

ABSTRACT:

A tape dispenser, having means for supporting a nondrying adhesive tape therein, includes a depending mandrel having a flat surface of predetermined area. Tape from the roll is unrolled and pulled over the mandrel with the sticky side out. The flat surface of mandrel covered with the tape is pressed on a surface to be tested for bacteria, and the contaminated tape, over the mandrel, is then pressed onto surface of a culture medium. By using gelatin-like culture medium, it may be held upside down for transfer of bacteria from the dispenser, to prevent extraneous contamination from airborne bacteria.

4 Claims, 6 Drawing figures Number of Drawing Sheets: 1

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